

Title (en)

MICROMACHINED MONOLITHIC 6-AXIS INERTIAL SENSOR

Title (de)

MIKROVERARBEITETER MONOLITHISCHER INERTIALSENSOR MIT SECHS ACHSEN

Title (fr)

CAPTEUR INERTIEL MONOLITHIQUE 6 AXES MICRO-USINÉ

Publication

EP 2616771 A4 20150826 (EN)

Application

EP 11826069 A 20110918

Priority

- US 38424010 P 20100918
- US 2011052061 W 20110918

Abstract (en)

[origin: WO2012037538A2] The device layer of a 6-degrees-of-freedom (6-DOF) inertial measurement system can include a single proof-mass 6-axis inertial sensor formed in an x-y plane, the inertial sensor including a main proof-mass section suspended about a single, central anchor, the main proof-mass section including a radial portion extending outward towards the edge of the inertial sensor, a central suspension system configured to suspend the 6-axis inertial sensor from the single, central anchor, and a drive electrode including a moving portion and a stationary portion, the moving portion coupled to the radial portion, wherein the drive electrode and the central suspension system are configured to oscillate the 6-axis inertial sensor about a z-axis normal to the x-y plane.

IPC 8 full level

G01C 19/56 (2012.01); **G01P 15/125** (2006.01); **G01P 15/18** (2013.01)

CPC (source: EP KR US)

B81B 3/00 (2013.01 - KR); **B81B 3/0018** (2013.01 - US); **B81C 1/00** (2013.01 - KR); **B81C 1/00158** (2013.01 - US); **G01C 19/5621** (2013.01 - KR); **G01C 19/5712** (2013.01 - EP US); **G01C 19/5755** (2013.01 - EP US); **G01P 15/125** (2013.01 - EP US); **G01P 15/18** (2013.01 - EP US); **G01P 2015/082** (2013.01 - EP US); **G01P 2015/084** (2013.01 - EP US)

Citation (search report)

- [XAY] US 2009064780 A1 20090312 - CORONATO LUCA [IT], et al
- [Y] US 2009114016 A1 20090507 - NASIRI STEVEN [US], et al
- See references of WO 2012037538A2

Designated contracting state (EPC)

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DOCDB simple family (application)

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